

10-8-03

DATE

TO

SUBJECT: Certificate of Correction Request in Patent No.:

Paper No. 14

A response to the following question(s) is requested with respect to the accompanying request for a certificate of correction.

- ☒ 1. Would the change(s) requested, under 37 C.F.R. 1.323, correcting Applicant/Attorney's (A or Atty.) errors, constitute new matter or require reexamination of the application?
- ☒ 2. Would the change(s) requested, under 37 C.F.R. 1.323, correcting Applicant/Attorney's (A or Atty.) errors, materially affect the scope or meaning of the claims allowed by the examiner in the patent?
- ☐ 3. Applicant disagrees with change(s) initialed and dated by Examiner in lieu of an Examiner's Amendment. Should the change request be granted?
- ☒ 4. With respect to the change(s) requested, correcting Office and/or printing (O, Off, C, and/or P) errors, should the patent read as shown in the certificate of correction?
- ☐ 5. If the amendment filed _____ had been considered by the Examiner, would the amendment have been entered?

PLEASE RESPOND WITHIN 7 DAYS AND RETURN THE FILE TO

PALM LOCATION 7580,

CERTIFICATES OF CORRECTION BR, PARK 3 - 918,

Thank you

Valerie Jackson

Legal Instrument Examiner
Tel. No. 305-8364

EXPEDITE

PLEASE CHECK THE BOX(ES) BELOW CORRESPONDING TO THE BOXES CHECKED FOR QUESTION(S)
ABOVE AND RETURN FILE TO: PALM LOCATION 7580, CERT. OF CORREC. BR., PK 3 - 918

DATE:

The decision regarding the change(s) requested in the certificate of correction is shown below.

☐ 1. YES☐ NO☐ Comments below☐ 2. YES☐ NO☐ Comments below☐ 3. YES☐ NO☐ Comments below☐ 4. YES☐ NO☐ Comments below☐ 5. YES☐ NO☐ Comments below☐ Comments _____Please Sign
and Return to
Valerie
Thank you!

[Signature]

Supervisor

1651

Art Unit

REVIEW

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 6,117,176
DATED : September 12, 2000
INVENTOR(S) : John Y. Chen

Page 1 of 7

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 1,

Line 14, after year "1994" delete ",".

Line 14, after the number "286" add -- ; --.

Lines 21-25, delete the following:

"which in turn is a CIP of 957,290); now U.S. Pat. No. 5,334,646 Ser. No.

08/152,743, filed Nov. 15, 1993 now U. S. Pat. No. 5,629,294 (CIPs of 114.688;

935,540; 876,118; 705,096; 957,290; 705,711"

and add

-- The above patents and applications are specifically incorporated herein by reference. --.

Column 3,

Line 23, after the word "articles" before the period add the following:

-- as shown generally by the relationship of G_n and M_n and more specific article examples of M_1 , M_2 , M_3 , and M_4 with G_n when the material M_n is $n = 1$ (fabric/cloth), $n = 2$ (foam/sponge), $n = 3$ (synthetic resin/plastic), and $n = 4$ (fibre) as shown in Figs 3d, 3e, 3h, and 3j respectively --.

Line 25, after the word "articles" before the period add the following:

-- as shown generally by the relationship of G_n and M_n and more specific article examples of M_1 , M_2 , M_3 , and M_4 with G_n when the material M_n is $n = 1$ (fabric/cloth), $n = 2$ (foam/sponge), $n = 3$ (synthetic resin/plastic), and $n = 4$ (fibre) as shown in Figs 4l, 4m, 4n, and 4q respectively --.

Line 26, delete the polymer notation: "S-E-EB-S" and add -- S-E-EP-S --.

Column 6,

Line 59, "poly(butadine)" and add -- poly(butadiene) --.

Column 9,

Line 8, delete "polybutadine" and add -- polybutadiene --.

Line 54, delete "negligable" and add -- negligible --.

Line 67, delete "detactable" and add -- detectable --.

Column 10,

Line 47, delete "resutls" and add -- results --.

Column 12,

Line 15, delete "glass a transition" and add -- a glass transition --.

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 6,117,176
DATED : September 12, 2000
INVENTOR(S) : John Y. Chen

Page 2 of 7

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 13,

Line 9, delete "amorphous" and add -- amorphous --.

Column 15,

Line 44, delete "steraric" and add -- stearic --.

Column 23,

Lines 2-20, correct claim 1 by deleting:

"1. An improved gelatinous composition comprising: a crystal gel formed from (I) 100 parts by weight of one or more linear, branched, star-shaped (radial), or multiarm block copolymers or mixtures of two or more such block copolymers, said block copolymers having one or more midblocks, said midblocks comprising one or more substantially crystalline polyethylene midblocks and with one or more amorphous midblocks; optionally in combination with a selected amount of one or more of (II) a polymer or copolymer, and selected amounts of a plasticizing oil (III) sufficient to achieve gel rigidities of from less than about 2 gram Bloom to about 1,800 gram Bloom with the proviso that said block copolymers without any amorphous midblocks are combined with at least one block copolymer having at least one amorphous midblock, wherein said block midblocks of copolymers forming said crystal gel having a selected amount of crystallinity sufficient to exhibit a melting endotherm of at least about 40°C as determined by DSC curve."

and adding the corrected claim 1 as follows:

-- 1. An improved gelatinous composition comprising: a crystal gel formed from (I) 100 parts by weight of one or more linear, branched, star-shaped (radial), or multiarm block copolymers or mixtures of two or more such block copolymers, said block copolymers having one or more midblocks, said midblocks comprising one or more substantially crystalline polyethylene midblocks and with (i) one or more amorphous midblocks or (ii) without amorphous midblocks, in combination with or without a selected amount of one or more of (II) a polymer or copolymer, and selected amounts of (III) a plasticizing oil sufficient to achieve gel rigidities of from less than about 2 gram Bloom to about 1,800 gram Bloom, with the proviso when said (I) block copolymers without any amorphous midblocks are combined with at least one block copolymer having at least one amorphous midblock, that said midblocks of said (I) block copolymers forming said crystal gel comprises a selected amount of crystallinity sufficient to exhibit a melting endotherm of at least about 40°C as determined by DSC curve. --

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 6,117,176
DATED : September 12, 2000
INVENTOR(S) : John Y. Chen

Page 3 of 7

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 23 cont'd.

Lines 21-45, correct claim 2 by deleting:

"2. An improved gelatinous composition comprising: a crystal gel formed from 100 parts by weight of one or more block copolymers or mixtures of two or more such block copolymers, said block copolymers having the formula poly(styrene-ethylene-ethylene-butylene-styrene), poly(styrene-ethylene-butylene₄₅-ethylene-propylene-styrene), poly(styrene-ethylene-ethylene-butylene₂₅-styrene), poly(styrene-ethylene-ethylene-propylene-ethylene-styrene), poly(styrene-ethylene-propylene-ethylene-ethylene-styrene), poly(styrene-ethylene-butylene)_n, poly(styrene-ethylene-butylene₄₅-ethylene-propylene)_n, poly(styrene-ethylene-ethylene-butylene₂₅)_n, poly(styrene-ethylene-ethylene-propylene-ethylene)_n, poly(styrene-ethylene-propylene-ethylene)_n, poly(styrene-ethylene-ethylene-propylene-ethylene)_n, midblocks comprising one or more substantially crystalline polyethylene midblock segment, wherein subscript n is two or more; in combination with or without a selected amount of one or more of a (II) polymer or copolymer, and selected amounts of a plasticizing oil (III) sufficient to achieve gel rigidities of from less than about 2 gram Bloom to about 1,800 gram Bloom, wherein said gel is capable of exhibiting greater tear resistance or greater fatigue resistance than a gel having a corresponding rigidity made from a substantially amorphous poly(styrene-ethylene-butylene-styrene) or poly(styrene-ethylene-propylene-styrene) block copolymers having substantially non-crystalline polyethylene midblock segments."

add the corrected claim 2 as follows:

- 2. An improved gelatinous composition comprising: a crystal gel formed from (I) 100 parts by weight of one or more of the same block copolymers or mixtures of two or more of a different block copolymers, said block copolymers having the formula poly(styrene-ethylene-ethylene-butylene-styrene), poly(styrene-ethylene-ethylene-propylene-styrene), poly(styrene-ethylene-ethylene-butylene₂₅-styrene), poly(styrene-ethylene-ethylene-propylene-ethylene-styrene), poly(styrene-ethylene-propylene-ethylene-ethylene-styrene), poly(styrene-ethylene-ethylene-butylene)_n, poly(styrene-ethylene-ethylene-propylene)_n, poly(styrene-ethylene-ethylene-butylene₂₅)_n, poly(styrene-ethylene-ethylene-propylene-ethylene)_n, poly(styrene-ethylene-propylene-ethylene)_n, poly(styrene-ethylene-propylene-ethylene-ethylene)_n, midblocks comprising one or more substantially crystalline polyethylene midblock segment(s), wherein subscript n is two or more; wherein said (I) block copolymers in combination with or without a selected amount of one or more of (II) a polymer or copolymer, and selected amounts of (III) a plasticizing oil sufficient to achieve a gel rigidity of from less than about 2 gram Bloom to about 1,800 gram Bloom, wherein said gel is capable of exhibiting greater tear resistance or greater fatigue resistance than a gel having a corresponding rigidity made from a substantially amorphous poly(styrene-ethylene-butylene-styrene) or poly(styrene-ethylene-propylene-styrene) block copolymers having substantially non-crystalline polyethylene midblock segments. --

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 6,117,176
DATED : September 12, 2000
INVENTOR(S) : John Y. Chen

Page 4 of 7

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 23 cont'd.

Lines 50-59, correct claim 4 by deleting:

"4. (Once amended) A gel according to claim 1 or 2, wherein said gel exhibits in differential scanning calorimeter (DSC) a melting endotherm of about 28°C, 29°C, 30°C, 31°C, 32°C, 33°C, 34°C, 35°C, 36°C, 37°C, 38°C, 39°C, 40°C, 41°C, 42°C, 43°C, 44°C, 45°C, 46°C, 47°C, 48°C, 49°C, 50°C, 51°C, 52°C, 53°C, 54°C, 55°C, 56°C, 57°C, 58°C, 59°C, 60°C, 61°C, 62°C, 63°C, 64°C, 65°C, 66°C, 67°C, 68°C, 69°C, 70°C, 71°C, 72°C, 73°C, 74°C, 75°C, 76°C, 77°C, 78°C, 79°C, 80°C, 90°C, 100°C, 110°C, or 120°C."

add the corrected claim 4 as follows:

4. A gel according to claim 1 or 2, wherein said gel exhibits in differential scanning calorimeter (DSC) a melting endotherm of about 25°C, 28°C, 29°C, 30°C, 31°C, 32°C, 33°C, 34°C, 35°C, 36°C, 37°C, 38°C, 39°C, 40°C, 41°C, 42°C, 43°C, 44°C, 45°C, 46°C, 47°C, 48°C, 49°C, 50°C, 51°C, 52°C, 53°C, 54°C, 55°C, 56°C, 57°C, 58°C, 59°C, 60°C, 61°C, 62°C, 63°C, 64°C, 65°C, 66°C, 67°C, 68°C, 69°C, 70°C, 71°C, 72°C, 73°C, 74°C, 75°C, 76°C, 77°C, 78°C, 79°C, 80°C, 90°C, 100°C, 110°C, or 120°C. --

Column 24.

Lines 14-25, correct claim 6 by deleting:

"6. A gel according to claim 1 or 2, wherein said gel is being denoted by G, is physically interlocked with a selected material M forming a composite of the combination G_nM_n , $G_nM_nG_n$, $M_nG_nM_n$, $M_nG_nG_nM_n$, $G_nM_nM_nG_n$, $G_nM_nG_nM_nG_n$, $M_nM_nM_nG_n$, $M_nM_nM_nG_nM_nM_n$ or a permutation of one or more of said G_n with M_n ; wherein when n is a subscript of M, n is the same or different selected from the group consisting of paper, foam, plastic, fabric, metal, metal foil, concrete, wood, glass, glass fibers, ceramics, synthetic resin, synthetic fibers or refractory materials; and wherein when n is a subscript of G, n denotes the same or a different gel rigidity."

add corrected claim 6 as follows:

-- 6. A gel according to claim 1 or 2, wherein said gel is being denoted by G, is physically interlocked with a selected material M or in combination with one or more of the same gel or a different gel forming a composite of the combination G_nG_n , $G_nG_nG_n$, G_nM_n , $G_nM_nG_n$, $M_nG_nM_n$, $M_nG_nG_n$, $M_nM_nM_nG_nM_n$, $M_nG_nG_nM_n$, $G_nM_nG_nG_n$, $G_nG_nM_nM_n$, $G_nM_nM_nG_n$, $G_nG_nM_nG_nM_nG_n$, $G_nM_nG_nM_nM_n$, $M_nG_nM_nG_nM_nG_n$, $G_nG_nM_nM_nG_n$, $G_nG_nM_nG_nM_n$, $G_nG_nM_nG_nM_nG_n$, $G_nM_nG_nM_nG_n$, $M_nM_nM_nG_n$, $M_nM_nM_nG_nM_nM_n$ or a permutation of one or more of said G_n with M_n ; wherein when n is a subscript of M, n is the same or different selected from the group consisting of paper, foam, plastic, fabric, metal, metal foil, concrete, wood, glass, glass fibers, ceramics, synthetic resin, synthetic fibers or refractory materials; and wherein when n is a subscript of G, n denotes the same or a different gel rigidity.--

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 6,117,176
DATED : September 12, 2000
INVENTOR(S) : John Y. Chen

Page 5 of 7

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 24 cont'd.

Lines 26-46, correct claim 7 by deleting:

"7. (Twice amended) A gel according to claim 1 or 2 wherein said gel being formed into a gel hand exercising grip, a gel shape floss suitable for use as a dental floss, a gel crutch cushion, a gel cervical pillow, a gel bed wedge pillow, a gel leg rest, a gel neck cushion, a gel mattress, a gel bed pad, a gel elbow pad, a gel dermal pad, a gel wheelchair cushion, a gel helmet liner, a gel cold and hot pack, a gel exercise weight belt, a gel traction pad or belt, a gel cushion for splints, a gel sling, a gel brace for the hand, wrist, finger, forearm, knee, leg, clavicle, shoulder, foot, ankle, neck, back, rib, a gel sole for orthopedic shoe, a gel shaped toy article, a gel optical cladding for cushioning optical fibers from bending stresses, a gel swab tip, a gel fishing bate, a gel seal against pressure, a gel thread, a gel strip, a gel yarn, a gel tape, a weaved gel cloth, a gel fabrics, a gel balloon for valvuloplasty of the mitral valve, a gel trointestinal balloon dilator, a gel esophageal balloon dilator, a gel dilating balloon catheter use in coronary angiogram, a gel condom, a gel toy balloon, a gel surgical and examination glove, a self sealing enclosures for splicing electrical and telephone cables and wires, a gel film, or a gel liner."

add the corrected claim 7 as follows:

-- 7. A gel according to claim 1 or 2, wherein said gel being formed into a gel hand exercising grip, a gel shape floss suitable for use as a dental floss, a gel crutch cushion, a gel cervical pillow, a gel bed wedge pillow, a gel leg rest, a gel neck cushion, a gel mattress, a gel bed pad, a gel elbow pad, a gel dermal pad, a gel wheelchair cushion, a gel helmet liner, a gel cold and hot pack, a gel exercise weight belt, a gel traction pad or belt, a gel cushion for splints, a gel sling, a gel brace for the hand, wrist, finger, forearm, knee, leg, clavicle, shoulder, foot, ankle, neck, back, rib, a gel sole for orthopedic shoe, a gel shaped toy article, a gel optical cladding for cushioning optical fibers from bending stresses, a gel swab tip, a gel fishing bate, a gel seal against pressure, a gel thread, a gel strip, a gel yarn, a gel tape, a weaved gel cloth, a gel fabrics, a gel balloon for valvuloplasty of the mitral valve, a gel trointestinal balloon dilator, a gel esophageal balloon dilator, a gel dilating balloon catheter use in coronary angiogram, a gel condom, a gel toy balloon, a gel surgical and examination glove, a self sealing enclosures for splicing electrical and telephone cables and wires, a gel film, or a gel liner. --

Lines 47-59, correct claim 8 by deleting:

"8. A gel according to claim 1 or 2, wherein said gel is being denoted by G, is physically interlocked with a selected material M or in combination with one or more of the same gel or different gel forming a composite of the combination $G_n G_n$, $G_n G_n G_n$, $G_n M_n$, $G_n M_n G_n$, $M_n G_n M_n$, $M_n G_n G_n$, $M_n M_n M_n G_n M_n$, $M_n G_n G_n M_n$, $G_n M_n G_n G_n$, $G_n G_n M_n M_n$, $G_n M_n M_n G_n$, $G_n G_n M_n G_n M_n G_n G_n$, $G_n M_n G_n M_n M_n$, $M_n G_n M_n G_n M_n G_n$, $G_n G_n M_n M_n G_n$, $G_n G_n M_n G_n M_n$, $G_n G_n M_n G_n M_n G_n$ or a permutation of one or more of said G_n with M_n ; wherein when n is a subscript of M, n is the same or different selected from the group consisting of paper, foam, plastic, fabric, metal, metal foil, concrete, wood, glass, glass fibers, ceramics, synthetic resin, synthetic fibers or refractory materials; and wherein when n is a subscript of G, n denotes the same or a different gel rigidity."

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 6,117,176
DATED : September 12, 2000
INVENTOR(S) : John Y. Chen

Page 6 of 7

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 24 cont'd.

Add the corrected claim 8 as follows:

-- 8. A gel according to claim 5, wherein said composite being formed into a gel hand exercising grip, a gel shape floss suitable for use as a dental floss, a gel crutch cushion, a gel cervical pillow, a gel bed wedge pillow, a gel leg rest, a gel neck cushion, a gel mattress, a gel bed pad, a gel elbow pad, a gel dermal pad, a gel wheelchair cushion, a gel helmet liner, a gel cold and hot pack, a gel exercise weight belt, a gel traction pad or belt, a gel cushion for splints, a gel sling, a gel brace for the hand, wrist, finger, forearm, knee, leg, clavicle, shoulder, foot, ankle, neck, back, rib, a gel sole for orthopedic shoe, a gel shaped toy article, a gel optical cladding for cushioning optical fibers from bending stresses, a gel swab tip, a gel fishing bate, a gel seal against pressure, a gel thread, a gel strip, a gel yarn, a gel tape, a weaved gel cloth, a gel fabrics, a gel balloon for valvuloplasty of the mitral valve, a gel trointestinal balloon dilator, a gel esophageal balloon dilator, a gel dilating balloon catheter use in coronary angiogram, a gel condom, a gel toy balloon, a gel surgical and examination glove, a self sealing enclosures for splicing electrical and telephone cables and wires, a gel film, or a gel liner. --

Lines 60-65, correct claim 9 by deleting:

"9. A composite of claim 6 shaped in the form of a gel liner for lower limb or above the knee amputee prosthesis formed by injection molding, extruding, spinning, casting, or dipping of said gel in combination with M selected from foam, plastic, fabric, metal, ceramics, synthetic resin, synthetic fibers or refractory materials."

add the corrected claim 9 as follows:

-- 9. A composite of claim 6 shaped in the form of a gel liner for lower limb or above the knee amputee prosthesis formed by injection molding, extruding, spinning, casting, or dipping of said gel, wherein said gel comprises at least one said block copolymer of poly(styrene-ethylene-ethylene-propylene-styrene), poly(styrene-ethylene-ethylene-propylene)_n, poly(styrene-ethylene-ethylene-butylene-styrene), or poly(styrene-ethylene-ethylene-butylene)_n or a mixture of two or more of said block copolymers. --

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 6,117,176
DATED : September 12, 2000
INVENTOR(S) : John Y. Chen

Page 7 of 7

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Columns 24, 25 & 26,

Lines 66-67, 1-4 & 1-2, correct claim 10 respectively by deleting:

"10. A composite of claim 8 shaped in the form of a gel liner for lower limb or above the knee amputee prosthesis formed by injection molding, extruding, spinning, casting, or dipping of said gel in combination with or without M selected from foam, plastic, fabric, metal, ceramics, synthetic resin, synthetic fibers or refractory materials and in combination with or without one or more gels having a different rigidity."

add the corrected claim 10 as follows:

-- 10. A gel of claim 4 shaped in the form of a gel liner for lower limb or above the knee amputee prosthesis formed by injection molding, extruding, spinning, casting, or dipping of said gel, wherein said gel comprises at least one said block copolymer of poly(styrene-ethylene-ethylene-propylene-styrene), poly(styrene-ethylene-ethylene-propylene)_n, poly(styrene-ethylene-ethylene-butylene-styrene), or poly(styrene-ethylene-ethylene-butylene)_n, or a mixture of two or more of said block copolymers. --

Signed and Sealed this

Twenty-eighth Day of October, 2003

A handwritten signature in black ink, appearing to read "James E. Rogan", with a horizontal line drawn underneath it.

JAMES E. ROGAN
Director of the United States Patent and Trademark Office